

Title (en)

Method for presetting cold-forming installations

Title (de)

Verfahren zum Voreinstellen von Kaltverformungsanlagen

Title (fr)

Procédé pour préréglage d'installations de formage à froid

Publication

EP 0972580 A3 20021211 (DE)

Application

EP 99110703 A 19990602

Priority

DE 19831480 A 19980714

Abstract (en)

[origin: US6161406A] A method of preadjusting cold deforming plants, such as cold rolling trains, skin pass stands, stretcher-and-roller levelers, straightening machines, and the like, wherein the hardness of the material to be deformed is measured shortly before the cold deformation of the material and is utilized for correcting its hardening curve and the preadjustment of the cold deforming plant based on the measurement. The standard hardening curve of a material or a group of materials with corresponding standard values of hardness, yield strength, tensile strength, etc., can be corrected by an additive or multiplicative linkage with a correction member which contains at least one tensile strength determined through the measured hardness value.

IPC 1-7

B21B 37/58

IPC 8 full level

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CPC (source: EP US)

B21B 37/58 (2013.01 - EP US); **B21B 1/28** (2013.01 - EP US); **B21B 1/36** (2013.01 - EP US); **B21B 38/105** (2013.01 - EP US); **B21B 2001/228** (2013.01 - EP US); **B21B 2265/12** (2013.01 - EP US)

Citation (search report)

- [X] EP 0102937 A1 19840314 - VOEST ALPINE AG [AT]
- [A] EP 0436762 A1 19910717 - BWG BERGWERK WALZWERK [DE]
- [A] DE 4015750 A1 19901122 - KOETHEMANN KARL HEINZ DR ING [DE]
- [A] PATENT ABSTRACTS OF JAPAN vol. 010, no. 122 (M - 476) 7 May 1986 (1986-05-07)

Cited by

WO2010112196A1; DE102009060828A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

US 6161406 A 20001219; AT E301510 T1 20050815; CA 2277550 A1 20000114; CA 2277550 C 20070925; DE 19831480 C1 20000113; DE 59912379 D1 20050915; EP 0972580 A2 20000119; EP 0972580 A3 20021211; EP 0972580 B1 20050810; ES 2245061 T3 20051216; JP 2000042602 A 20000215; JP 4390917 B2 20091224

DOCDB simple family (application)

US 34963399 A 19990708; AT 99110703 T 19990602; CA 2277550 A 19990709; DE 19831480 A 19980714; DE 59912379 T 19990602; EP 99110703 A 19990602; ES 99110703 T 19990602; JP 19475899 A 19990708